marantz®

MARA-00690

Model SR390 User Guide

A/V Surround Stereo Receiver

690

ENGLISH

WARRANTY
For warranty information, contact your local Marantz distributor.

RETAIN YOUR PURCHASE RECEIPT
Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes of when corresponding with Marantz.

IMPORTANT
When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY
This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE
Pour des informations sur la garantie, contacter le distributeur local Marantz.

CONSERVER L'ATTESTATION D'ACHAT
L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieur sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

IMPORTANT
Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de lachat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GRANTIE
Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

HEBEN SIE IHRE QUITTUNG GUT AUF
Die Quittung dient Ihnen als bleibende Unterlage für Ihre wertvolle Anschaffung Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen angaben für Versicherungszwecke oder bei korrespondenz mit Marantz angeführt werden müssen.

WICHTIG!
Bei Garantiefrangen muß der Kunde eine Kaufunterlage mit kaufdatum vorlegen. Ihre Quittung oder Rechnung ist als Unterlage ausreichend.

NEDERLANDS

GRANTIE
Voor inlichtingen omtrent garantie dient u zich te wenden tot uw plaatselijke Marantz-handelaar.

UW KWITANTIE, KASSABON E.D. BEWAREN
Uw Kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt. verwijzing, b.v. in verband met verzekering of bij correspondentie met Marantz.

BELANGRIJK
Bij een evt. beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur is zijn voldoende bewijs.

ITALIANO

CONDIZIONI DI GARANZIA
L'apparecchio e' garantito per 365 giorni dalla data di acquisto comprovata da un documento attestante il nominativo del rivenditore e la data di vendita. La garanzia sara' prestata con la sostituzione o riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non passano riferirsi a difetti di funzionamento dell'apparecchio.
Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza. Le spese ed i rischi di trasporto sono a carico del cliente.

La casa costruttrice declina ogni responsabilita' per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale.

Per informazioni sull'abbonamento al servizio Assistenza postgaranzia e per conoscere l'indirizzo dei Centri Assistenza Marantz rivolgetevi al nostro servizio consumatori (telefono 1678-20026 – numero verde).

PORTUGUÊS

GARANTIA
Para informações sobre a garantia, contactar o distribuidor Marantz local.

GUARDAR O RECIBO DE COMPRA
O recibo é o registo permanente da compra que fez. Deve ser guardado num local seguro, para ser apresentado em questões relacionadas com o seguro ou para quando tiver de contactar a Marantz.

IMPORTANTE
Quando procurar assisténcia técnica ao abrigo da garantia, é da responsabilidade do consumidor estabelecer a prova e data de compra. O recibo é prova adequada.

ESPAÑOL

GARANTÍA
Para información sobre las Condiciones de Garantía, sírvase consultar el Certificado que encontará en le interior del embalaje del equipo.

CONSERVE EL COMPROBANTE DE LA COMPRA
La factura es el comprobante de la adquisición de un producto valioso. Consérvela en lugar seguro para poder consultarla en caso necesario.

IMPORTANTE
Para disponer de servicios cubiertos por la garantía, el usuario deberá acreditar la fecha y el lugar de adquisición del equipo. La factura o recibo de la compra constituyen un comprobante válido a tal efecto.

SVENSKA

GARANTI
Angående garanti,kontakta din lokala Marantz handlare.

SPAR KVITTOT
Kvittot är din Inköpshandllng över Inköp av en värdefull vara.Det ska placeras pá ett säkert ställe och hänvlsas till vid försäkringsfrágor eller vid korrespondens med Marantz.

VIKTIGT
När garantiservice áberopas är det konsumentens ansvar att visa datum för inköp.Ditt kvitto eller din faktura är ett tillfredsställande bevis.

DANSK

GARANTI
Bed din Marantz-forhandler om oplysninger om garantien.

GEM DIN KVITTERING SOM KØBSEVIS
Din kvittering er bevis på et værdifuldt køb. Opbevar den på et sikkert sted, hvor du let kan finde den i forbindelse med eventuelle erstatningskrav eller korrespondance med Maranz.

VIGTIGT
Det er brugerens ansvar at forelægge købsbevis, hvis der er brug for det i garantiforbindelse. Din kvittering eller faktura er gyldige bevis.

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CE MARKING

CE **English**
This unit is in conformity with EMC directive and low-voltage directive.

CE **Français**
Cet appareil est conforme à la directive EMC et à la directive sur les basses tensions.

CE **Deutsch**
Dieses Gerät entspricht den EMC-Richtlinien und den Richtlinien für Niederspannungsgeräte.

CE **Nederlands**
Dit apparaat voldoet aan de EMC-richtlijnen en de richtlijnen voor apparatuur met laag voltage.

CE **Italiano**
Quest'unità è conforme alle direttive EMC ed alla direttiva sulle basse tensioni.

CE **Português**
Esta unidade está em conformidade com as directivas EMC e as directivas de baixa voltagem.

CE **Español**
Esta unidad está de acuerdo con las normas EMC y las relacionadas con baja tensión.

CE **Svenska**
Denna enhet överensstämmer med EMC direktivet och direktivet för lågspänning.

CE **Dansk**
Dette apparat er i overensstemmelse med EMC direktivet og direktivet for lavspænding.

SI DICHIARA CHE L'APPARECCHIO SINTO-AMPLIFICATORE SR390 RISPONDE ALLE PRESCRIZIONI DELL'ART. 2 COMMA 1 DEL D.M. 28 AGOSTO 1995 N° 548.

FATTO A EINDHOVEN, IL 1/1/1996.

MARANTZ EUROPE B.V.
5600 EINDHOVEN
THE NETHERLANDS

"Este aparato lleva elementos antiparasitarios necesarios para cumplir con los limites que se estableren en el Anexo V del Reglamento sobre Pertubaciones Radioelectricas e Interferencias aprobado en el Real Decreto 138/1989. (B.O.E. de 9 de Febrero1989)."

ENGLISH

FOREWORD

This section must be read carefully before any connection is made to the mains supply.

WARNINGS

Do not expose the equipment to rain or moisture.

Do not remove the cover from the equipment.

Do not insert anything into the equipment through the ventilation holes.

Do not handle the mains lead with wet hands.

EQUIPMENT MAINS WORKING SETTING

Your Marantz product complies with the household power and safety requirements in your area.
This is a voltage selector on the bottom panel of the "Overseas" Version product,. Be sure to set the voltage selector to the mains voltage of your area before using the unit.

IMPORTANT

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fix new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.
If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

NOTE: The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

HOW TO CONNECT A PLUG

The wires in the mains lead are coloured in accordance with the following code:
BLUE—"NEUTRAL" ("N")
BROWN—"LIVE" ("L")

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.
3. Do not connect either wires to the earth terminal in the plug which is marked by the letter "E" or by the safety earth symbol T or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead — not simply over the two wires.

COPYRIGHT

Recording and playback of some material may require permission. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963, and 1972
- Any subsequent statutory enactments and orders

INTRODUCTION

Thank you for selecting the Marantz AV Surround Stereo Receiver for your AV system.
This AV Surround Stereo Receiver incorporates a number of features designed to enhance the listening of your favorite music and home theater sources.
Please read these operating instructions carefully. We recommend that you read the entire user guide before you attempt to connect or operate the receiver.
After you have reviewed the contents of this manual, we suggest that you make all system connections before you attempt to operate the unit.

Refer to the figures on the pages at the back of this user's guide. The callout numbers on the figures correspond to those found in the text. All references to the connections and controls that are printed in **BOLD** type are as they appear on the unit.

INSTALLATION

Remember the following important points when installing the receiver.

- Do not expose the component to rain or moisture, as this may cause damage to the receiver.
- All receivers produce some heat during operation and this heat must be allowed to disperse freely. Do not close any ventilation openings and insure that there is adequate ventilation space behind, beside and above the receiver.
- Prevent extra heat from reaching the unit. Never put the receiver in the full glare of the sun or near a heat source.

PRECAUTIONS

The following precautions should be taken when operating the equipment.

GENERAL PRECAUTIONS

When installing the equipment ensure that:

- the ventilation holes are not covered.
- air is allowed to circulate freely around the equipment.
- it is placed on a vibration-free surface.
- it will not be exposed to excessive heat, cold, moisture or dust.
- it will not be exposed to direct sunlight.
- it will not be exposed to electrostatic discharges.
- always install the unite horizontally.

In addition, never place heavy objects on the equipment.

If a foreign object or water does enter the equipment, contact your nearest dealer or service center.

Do not pull out the plug by pulling on the mains lead; grasp the plug itself.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the AC outlet.

SR390 FEATURES

- Equipped with 7 audio inputs and 3 video inputs.
- Front 50 W x 2 (8 ohms, stereo mode), 40 W each Left, Center and Right (8 ohms, surround mode), 20+20W (8 ohms, surround mode).
- Surround decoder with digital delay control function.
- Dolby Pro Logic Surround with auto input balance control function.
- 30-station random preset memory.
- Up to 90-minute sleep timer.

To ensure proper ventilation for the receiver, do not mount it in a rack or locate it inside a bookshelf. Note the following precautions.

- Do not insert objects into the space underneath the receiver.
- Do not block the vents on the top of the receiver.
- Keep the area above the receiver unobstructed for about one meter.
- Allow approximately 20 centimeters of space on all sides of the receiver.

USING THE SURROUND MODES

Four surround modes are provided for reproducing sound with a live atmosphere. Select the surround mode appropriate to the music/video source and your listening room conditions.

DOLBY PRO LOGIC SURROUND

This is the setting you will probably use for watching most Dolby Surround (DOLBY SURROUND) encoded videos. This provides you with left and right stereo for off-screen imaging, a center channel for most on-screen dialogue, and a surround channel for ambiance and special effects.

There are three center channel modes available in Dolby Surround.

"PHANTOM" should be used if you have elected not to use a center channel. This mode of operation directs the center channel information equally to the left and right channel speakers, creating a "phantom" center image of the dialogue. This is the way the first generation Dolby Surround worked.

"NORMAL" should be used if you are using a small center channel speaker (or speakers) with limited bass response. In NORMAL mode, the lower frequencies (below 100 Hz) are removed from the center channel and redirected equally to the left and right speakers. Since bass frequencies are omnidirectional, this will not affect the imaging of the center channel. The dialogue will still appear to come from the video screen.

"WIDE" should be used if you are using a full-range center channel speaker that is just as capable of good bass response as your main left and right speakers. In this mode, all the center channel information remains in the center channel output.

There are 3 delay times available in Dolby Surround : 15, 20, 30 mS (milliseconds)

For most home theater setups, the 20mS setting works best. This setting should be used if your front speakers are the about the same distance away from the listening position as the surround speakers are located. Choose the 30mS setting only if you are sitting much closer to the surround speakers than to the front speakers. Choose the 15mS setting if you are further away from the surround speakers than you are to the front speakers.

DOLBY 3 STEREO

This mode of operation is available to provide a center channel image for stereo program sources that are not encoded with surround sound. This is use for watching older movies or TV shows that are recorded in stereo, particularly if your speakers are located relatively far apart from each other. In this way, dialogue will be correctly located at the video screen, while the stereo information will provide off-screen imaging. Only NORMAL and WIDE center channel modes are available in 3 STEREO Mode. Delay time is 0mS because the SURROUND channel is off.

DOLBY PRO-LOGIC SURROUND

ENGLISH

[Speaker Selection and Placement]

Front Speakers: These should be full-range, high quality speakers; the best speakers in your system. They should be located far enough from each side of your TV monitor to provide a well defined stereo image. The TV monitor should be located midway between the left and right front speakers. You may use smaller speakers if you are using a sub-woofer with your system.

Surround Speakers: The rear speakers in your surround sound system provide ambient sound for an open, "concert hall" effect when listening to music. They also spread the sound and provide special effects on video soundtracks when used in the Dolby Surround mode.

The demands made on your surround speakers are far less than on your main speakers. Therefore, these speakers do not need to be as large (and as expensive) as your main speakers. Deep bass response is not important at all. Good 2-way bookshelf speakers will handle the job easily, and most full-range mini-monitors are also quite suitable for this application. Depending on how extensive you want to get with your installation, there are also several in-wall and wall-mount speakers that are suitable for use as surround sound speakers. Dipole-type surround speakers can provide even wider dispersion, with a diffused sound field which provides enveloping surround sound effects.

The surround channel speakers should be mounted so that their sound is dispersed throughout the viewing area.

Ideally, you should install the surround speakers along the side walls of the listening room, directly above and to the left and right to the listeners or slightly behind them. Their height should be about 1 meter higher than the level of the listener's ears. (Figure 1-A). This will provide the best surround sound effect and should be used with both conventional direct-radiating as well as dipole speaker types. If this is not possible or practical, then try mounting the surround speakers on the back wall of the room, and aim them so that they are not firing directly sounds do not reach directly toward the listener's ears. (Figure 1-B) Another approach is to mount the speakers facing upward so that their sound is dispersed by the ceiling and rear wall (Figure 1-C).

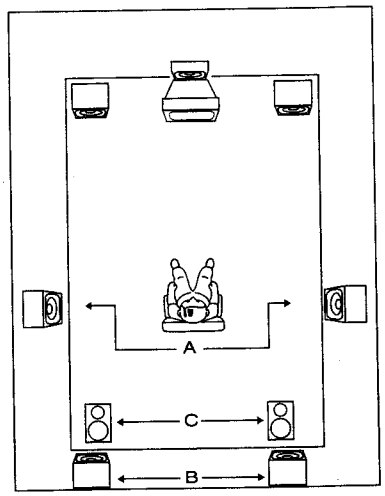


Figure1 .

Figure 1. Surround Speaker Options
Option A: Placed or mounted along side walls
Option B: Placed or mounted behind listeners
Option C: Placed or mounted facing upward

Center Speaker(s) Again, the center speaker(s) can be of a smaller size and less expensive than your main speakers. However, the upper midrange and treble response of the center speaker(s) should resemble that of the main speakers. If there are significant differences in frequency response in this range, the stereo image may shift toward the speaker with the higher output.

You can use one or two speakers for the center channel.
If you choose to use one speaker (Figure 2A), it should be located immediately above or below your video screen. Using one center speaker provides the best results for most home theater system setups.
If you choose to use two speakers (Figure 2B), the same signal will appear in both speakers since the CENTER channel output is monophonic. They should be located on each side of your TV monitor, as close as possible so that the dialogue will seem to come from the center of the TV screen.
In either case, the center speaker(s) should be placed as close to your video screen as possible, so it must be magnetically shielded. If it is not shielded, it could cause distortion of the TV picture. Special video- compatible monitor speakers are available for this application.

Use the center speaker as shown in Figure 2A or 2B.

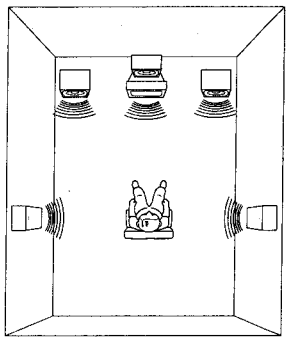


Figure 2A.

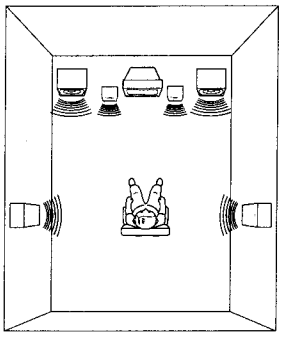


Figure 2B.

Figure 2. Center Speaker Options
Option A: Using one speaker
Option B: Using two speakers

SOUND FIELD EFFECT

The Receiver incorporates a sophisticated Digital Signal Processor that allows you to create the optimum sound quality and sound atmosphere in your room with both music and video sources.

SOUND FIELD MODE CONTROLS

- Description of each mode is as follows.

SF MODES	DESCRIPTIONS
HALL	This mode provides the ambience of a concert hall for live, un-amplified classical music sources such as orchestral, chamber music or solo instrumentals.
THEATER	This setting creates the same intimate feeling as you get in a theater when watching plays, musicals and solo acts.

NOTES
- If using a VCR, to take full advantage of the SF modes, especially Dolby Pro Logic, your VCR must be a Hi-Fi Stereo VCR. A mono VCR cannot provide the stereo soundtracks necessary for surround decoding.
- The surround modes will not operate correctly if the signal passes through a graphic equalizer. If you use a graphic equalizer in your system, set it for flat response or its "through" or "off" settings.

LOCATION AND FUNCTION OF PARTS AND CONTROLS

Rear panel connections

(See page 95.)

All connections to the rear panel should be made with entire power off to the system. To avoid miss-connection, it is advisable to connect one cable at a time between the different components. This is the safest way to avoid cross-connecting channels or mix-up signal inputs with outputs.

Ⓐ **FM antenna terminal (75 ohm or 300 ohm)**
For connecting an external FM antenna with a coaxial cable, or for connecting a cable network.

AM antenna and ground terminals
For connecting the supplied AM loop antenna. Use the terminals marked "AM" and "GND".
The supplied AM loop antenna will provide good AM reception in most areas. Position the loop antenna to the best reception.

Ⓑ **VCR1 video input/output jacks**
Connect the IN jack to your main VCR's video output jack and connect the OUT jack to the VCR's video input jack.

Ⓒ **LD/VCR 2 video input jack**
Connect to a laser disc player's video output jack.

Ⓓ **MONITOR OUT jack**
Connect to a TV's video input jack.

Ⓔ **REMOTE jacks**
Connect to other Marantz components equipped with REMOTE jacks. (See page 8.)

> Marantz components utilize the Philips RC-5 remote control system language.

Ⓕ **TAPE 1 input/output jacks**
Connect the output (PLAY) jack of the cassette deck to the IN jack, and connect the input (REC) jack to the OUT jack.

Ⓖ **TAPE 2 input**
Connect the output (PLAY) jack of the cassette deck to the IN jack.

Ⓗ **CD input jacks**
Connect to the audio output jacks of a CD player.

Ⓘ **VCR1 audio input/output jacks**
Connect the IN jacks to a VCR's audio output jacks and the OUT jacks to the VCR's audio input jacks.

Ⓙ **LD/VCR2 audio input jacks**
Connect to the audio output jacks of a laser disc player.

Ⓚ **SUB WOOFER (PRE OUT)**
These jacks supply pre-amp output signals, and are used for connection to external power amplifiers (if necessary).

Connect to the MAIN IN jacks of SUB WOOFER CHANNEL power amplifier.

Ⓛ **SURROUND speaker output terminals**
Connect to the surround (rear) speakers.

Ⓜ **CENTER speaker output terminals**
Connect to the center speaker.

Ⓝ **FRONT speaker output terminals**
Connect to the front speakers.

Ⓞ **AC OUTLET**
Connect the AC power cables of a CD player, cassette deck, etc., of your system. The power supply from switched outlet is interlocked with the POWER switch of the unit. The maximum total power consumption of the connected components must not exceed the following limit:
100 W MAX.

Ⓟ **AC power cord**
Plug into AC 230V household outlet.

Ⓠ **DVD (AUDIO) jacks**
Connect to the AUDIO output jacks of the DVD player.

Ⓡ **DVD (VIDEO) jacks**
Connect the DVD jack to the video output of the DVD player.

Note on loudspeaker impedance:
The power ratings specified for this Marantz receiver are obtained using fixed value test load impedances. However, the actual impedance of a loudspeaker system will vary with frequency, deviating from the nominal rating. This Marantz amplifier will drive any modern loudspeaker system with a rated impedance of 4 ohms or higher. A few newer loudspeakers feature impedances of less than 4 ohms. The high current output capability of this Marantz receiver can provide the additional power necessary to drive such low impedance speakers. However, during extended passages of high volume, the protection circuitry may temporarily interrupt operation. If this occurs, simply reduce the volume accordingly. The protection circuitry is specially designed so that it cannot affect the sound quality during normal operation.

Front panel features

(See page 95.)

ENGLISH

① **POWER switch**
When this switch is pressed once, the power turns ON and display appear on the display panel. When pressed again, the power turns OFF.
After initialization or resetting, press this switch to enter the stand-by mode.
To turn the power ON, press any of the function buttons of the main unit or the POWER button of the remote control unit.

② **SLEEP TIMER button**
Press this button to set the receiver to automatically turn off after 10, 20, 30, 60 or 90 minutes. Each time this button is pressed, the sleep time changes as follows.

→ 10 → 20 → 30 → 60 → 90 → OFF
unit: min.

③ **SPEAKERS button**
Use this button to select speaker system ON or OFF.

④ **PHONES socket for stereo headphones**
This jack is compatible with a wide range of conventional dynamic headphone types.

NOTE:
Change the surround mode to STEREO when using headphones.

⑤ **Tuning/preset UP and DOWN buttons**
During AM or FM reception, you can scan to other frequencies or preset number by pressing these buttons.

⑥ **FM MODE button**
Press this button to select stereo or mono mode when listening to FM broadcasts.

⑦ **MEMORY button**
MANUAL : To preset FM or AM (MW) in the system, press briefly (0.5 second or less).
AUTO : When you press the button for long (more than 0.5 second), FM or AM (MW) broadcasting will automatically be preset in the system.

⑧ **BASS CONTROL**
Adjust the low frequency level with this control according to your taste and room acoustics.

⑨ **TREBLE CONTROL**
Adjust the high frequency level with this control according to your taste and room acoustics.

⑩ **BALANCE CONTROL**
Adjust the sound volume between left and right front speakers with this control.

⑪ **AUX. audio/video input jacks (FRONT)**
Connect the audio/video output jacks of the second VCR (e.g. Camcorder) to these IN jacks.

⑫ **Input selectors**
These buttons select the audio or audio/video source. The selected source name will be displayed on Fluorescent display.
Pressing one of these buttons in the standby mode allows to turn power ON with the input function corresponding to the pressed button.

⑬ **INDICATOR DISPLAY**

STANDBY indicator
This indicator lights up when in the standby mode.

Audio MUTE indicator
This indicator lights up (blinking) when in the audio mute mode.

⑭ **REMOTE SENSOR**
This receives the signals from the remote control unit.

⑮ **CENTER MODE button**
Press this button to select the desired center mode when in the DOLBY PRO LOGIC or DOLBY 3 STEREO mode. Each time this button is pressed, the center mode changes as follows.

- **DOLBY PRO LOGIC mode:**

→ NORMAL → WIDE → PHANTOM

- **DOLBY 3 STEREO mode:**

→ NORMAL → WIDE

The display panel shows each mode.

⑯ **TEST TONE button**
Use this button to adjust the test tone volume level from each speaker. When operating test tone, TEST-FL, C, FR or R is displayed and the test tone is generated from each channel in turn for 2 seconds.

- When in DOLBY 3 STEREO mode, the test tone is not generated from the surround channel. (rear channel)

⑰ **DELAY TIME UP/DOWN buttons**
[DELAY TIME]
When in the DOLBY PRO LOGIC mode, adjust the delay time with these buttons according to room size and acoustics.

- Each time these buttons are pressed, the delay time changes as follows.

→ 15ms → 20ms → 30ms

- 20 ms is standard delay time.

⑱ **CENTER LEVEL UP/DOWN buttons**
Use these buttons to adjust the sound level from the center speaker relative to that from the front speakers only when in the normal or wide mode.

⑲ **REAR LEVEL UP/DOWN buttons**
When these buttons to adjust the sound level from the rear speakers relative to that from the front speakers.

⑳ **MASTER VOLUME CONTROL**
Adjust the overall sound volume from the front, center and rear speakers with this control.

㉑ **SURROUND MODE button**
Surround mode changes as follows whenever you push this button.
PROLOGIC 3 STEREO HALL THEATER

㉒ **STEREO (SURROUND OFF) button**
When switching from surround mode to stereo mode, This button pushes.

DISPLAY (See page 95.)

ⓐ **FREQUENCY/CHARACTER DISPLAY**
This displays the selected station frequency or the corresponding words when selecting a program source or a sound field mode or operating test tone.

ⓑ **PRESET NUMBER, SLEEP TIME, DELAY TIME, EFFECT DISPLAY**
This displays the selected preset number, the sleep time, the delay time, the effect, the center and the rear level when operating the surround mode.

ⓒ **STEREO INDICATOR**
This indicator lights up when in FM stereo mode.

ⓓ **TUNED INDICATOR**
This indicator lights up when a broadcast is received properly.

ⓔ **MEMORY INDICATOR**
When the MEMORY button is pressed, this indicator lights up for about 5 seconds.

ⓕ **DOLBY surround and other surround INDICATOR**
This indicator lights up when the DOLBY surround or other surround mode is selected.

ⓖ **RDS INDICATOR**
This indicator lights up when RDS broadcast is Received.

㉓RDS FUNCTIONS (Europe version only)

DISPLAY key

Each press of this key changes the display contents as shown below.

PS → PTY → CT → RT → FREQ .

PS (Program Service Name)
CT (Clock Time)
PTY (Program Type)
RT (Radio Text)
TA (Traffic Announcement)

However, the above is not displayed when there is no RDS data with the station being received.
Press and hold this key for more than 5 seconds to switch the CT (Clock Time) function OFF.
To switch CT ON again, press and hold the key for more than 5 seconds.

SEARCH key

This key is used to search a station broadcasting TP or PTY data by scanning.
Press the DISPLAY key then press the SEARCH key.
Now "RDS" is displayed. Each further press of the SEARCH key changes the display as shown below.
TP → PTY → FREQUENCY
When the desired item is displayed, press the TUNING UP or DOWN key to start scanning.

PTY SELECT key

When "PTY" is selected with the SEARCH key, select the desired programme type by pressing the PTY SELECT key.
When the desired programme type is displayed, press the TUNING UP or DOWN key to start scanning.
One of the following programme types can be selected:

NEWS	News service
AFFAIR	Politics and current events
INFO	Special informative reports
SPORT	Sports
EDUCATE	Learning and continuation of education
DRAMA	Radio plays, literature
CULTURE	Learning and continuation of education
SCIENCE	Programmers about science and technology
OTHERS	Variety
POP	Popular music
ROCK	Rock music
MOR	Middle of the road music, "easy-listening"
LIGHT	Light classic music
CLASSIC	Serious classical music
OTHER	Other music
WEATHER	Weather reports, forecasts
FINANCE	Financial reports, commerce, trading
CHILDREN	Children's programmes
SOCIAL A	Social affairs
RELIGION	Religious programmes
PHONE IN	Programmes in which the public expresses its view by phone
TRAVEL	Travel reports
HOBBIES	Programmes concerning recreational activities
JAZZ	Jazz music
COUNTRY	Country music
NATION M	National music
OLDIES	Music from the so-called 'golden age' of popular music
FOLK M	Folk music
DOCUMENT	Documentaries

ENGLISH

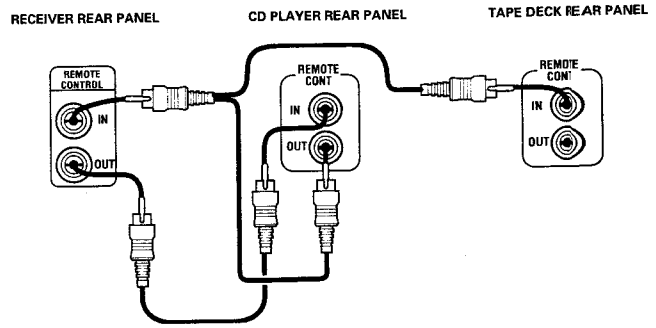
Remote control bus connections

This unit is equipped with a remote control function.
By connecting this unit's remote control jacks to a Marantz CD player or tape deck equipped with remote control (D-BUS) jacks, it allows system remote control operation.

Connect the REMOTE CONT. OUT jack of unit to REMOTE CONT. IN of other Marantz equipment, i.e. CD player or Cassette deck, by using an RCA pin cable.
The connection sequence between components is not important.

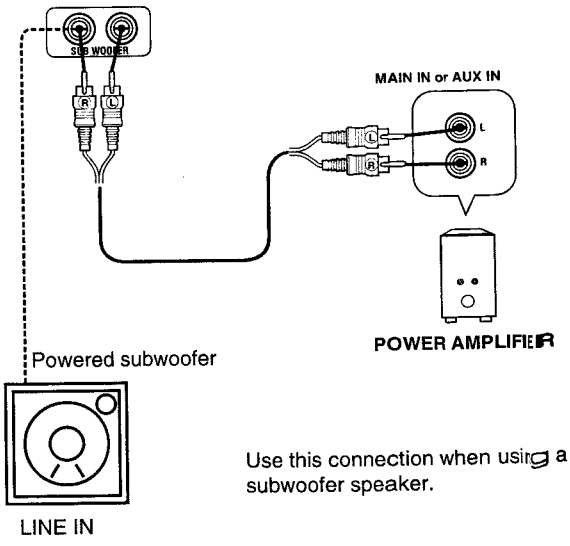
Note:
If a component equipped with remote control (D-BUS) jacks has an INT/EXT switch on the rear panel, set the switch to EXT when using the system control function.

(Connection example)



SUB WOOFER (PRE OUT) JACKS

The RECEIVER is equipped with PRE OUT jacks. Use these jacks to connect to external power amplifiers.



Use this connection when using a subwoofer speaker.

ENGLISH

BASIC OPERATION

Listening to the tuner

1. Press the POWER switch ① to turn on the power.
2. Press the AM or FM button ⑫ to select the desired band.
3. Press the TUNING UP and DOWN buttons ⑤ to tune in the desired station. Pressing once for less than a half second changes the frequency by one step. Pressing longer sequentially scans frequencies in the indicated direction. Releasing the button in this state activates the auto tuning function, which automatically scans the frequencies until it reaches a station, at which point the TUNED and auto tuning stops.
4. Adjust the sound volume with the VOLUME control ⑳.
   If necessary, adjust the tone controls (BASS/TREBLE) ⑧ and ⑨.

PRESETTING STATIONS

Up to 30 stations can be preset at random, regardless of the reception band.

1. Tune in the station to be memorized using the auto or manual tuning.
2. Press the MEMORY button ⑦, then the "MEMORY" indicator lights up for 5 seconds.
   • When the MEMORY indicator goes off, press again to memorize.
3. Select the preset number withTUNING UP / DOUN buttons to memorize while the MEMORY indicator flashes.
4. Press the MEMORY button again.
5. Repeat steps 1 to 3 to memorize other stations.
   • When memorizing a new station, the provisory memorized station on the same preset number is cleared.

■ AUTOMATIC MEMORY PRESETTING

1. MEMORY

Press the MEMO button for long (for more than 0.5 second).
Whenever the next highest broadcast frequency is selected, the selected broadcast is preset automatically.

NOTES:

- In FM Automatic Memory Presetting, frequency is automatically memorized. The setting which has better reception will be preset first.
- If the new broadcast channel is preset to a channel, the channel which had been preset to that position earlier will be automatically erased.
- It is impossible to preset automatically in areas far away from the broadcast station or in mountain areas where received signals are weak.

■ PRESET TUNING

- To listen to a radio station stored in the station memory.

■ LISTENING TO FM STEREO BROADCASTS

- During FM braodcasts, press the FM MODE button ⑥ to select the Stereo/mono mode.
- Each time this button is pressed, the mode changes as follows.
  Stereo mode: STEREO indicator lights up.
  Mono mode: STEREO indicator goes off.
- When listening to very weak FM stereo stations, you may experience higher than normal background hiss. Switch to monaural sound to eliminate the hiss.

■ CHANGE OF 9K/10K SCAN STEP

When you keeps pushing FM/AM button at about 3 seconds at AM mode, scan step of 9K/10K Hz is switched.

PLAYBACK OPERATION

Normal playback

1. Press the POWER switch ① to turn on the power.
2. Press the desired input selector ⑫ according to the table shown below.
3. Start playing the desired source.
   Adjust the volume using the VOLUME control ⑳.
   If necessary, adjust the tone using the BASS and TREBLE controls ⑧ and ⑨.

Source component	Input selector
Compact Disc Player	CD
FM or AM broadcasting	FM / AM
AUX	AUX
Laser Disc Player	LD / VCR 2
Video Cassette Recorder 1	VCR-1
Digital Video Disc Player	DVD
Cassette deck - 1	TAPE 1
Cassette deck - 2	TAPE 2

ADJUSTMENTS

Adjusting the surround level

To adjust the surround level, locate yourself in your usual listening position and operate the remote control unit [14]. (Please see next page.)
Use this procedure to adjust the volume of each of the front, center, and rear speakers when watching a movie or other video source in DOLBY surround mode.

1. Press the DOLBY PRO LOGIC button.
2. Press the CENTER MODE button ⑮ to the select the center mode corresponding to your speaker system configuration.
   In this example, the center mode is set to NORMAL.
3. Press the TEST TONE button ⑯. A test signal tone is heard from the left, center, right, and surround speakers in sequence.
4. Using the remote control, adjust the volume of the test tone for center and surround until the volume appears to be set at the same level for all speakers.
5. When volume adjustment is completed, press the TEST TONE button ⑯ again so that the test signal tone stops.

Listening to a different audio source while watching a video source

1. Select one of the following video sources ⑫.
   VCR 1, DVD, LD / VCR2, AUX
2. Next, select one of the following audio sources ⑫.
   CD, FM or AM, TAPE 1, TAPE 2,
   Adjust the volume using the VOLUME control ⑳.
   If necessary, adjust the tone using the BASS and TREBLE controls ⑧ and ⑨.

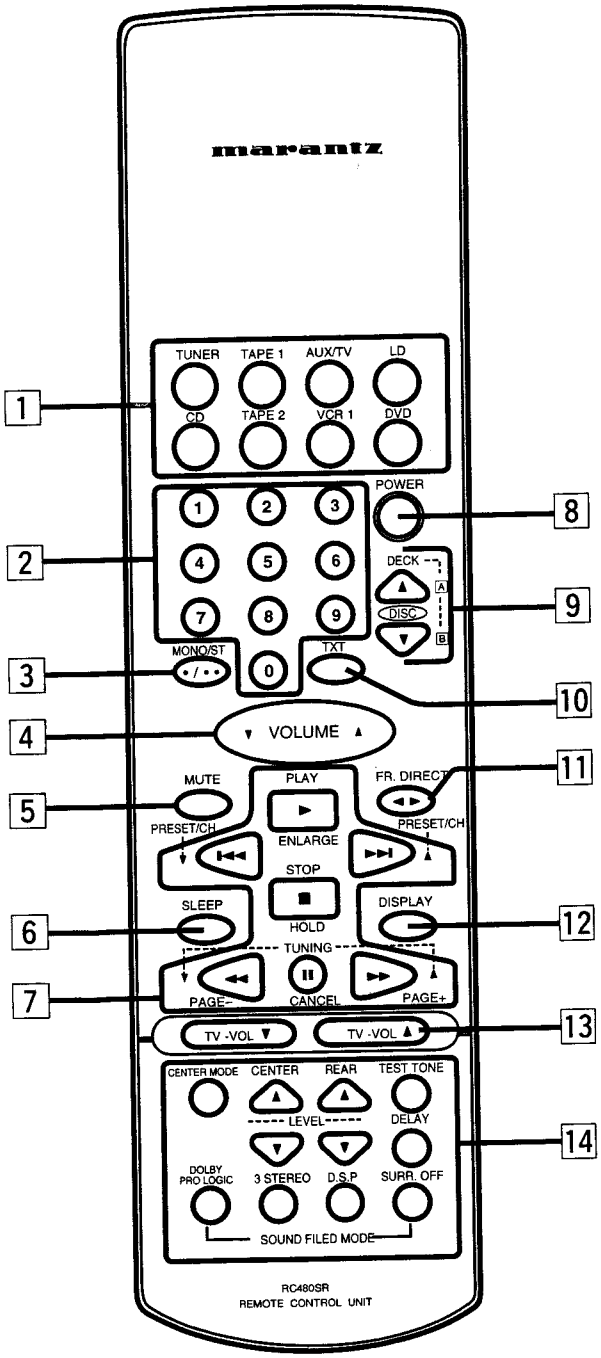
■ RECORDING WITH A CASSETTE DECK

■ Recording with TAPE 1

1. Select the program source to be recorded with the INPUT FUNCTION SELECTOR buttons ⑫.
2. Start recording on the cassette deck connected to the TAPE 1 jacks.
3. Play back the desired program source.
   • The volume, balance, bass and treble settings have no effect on the recording or dubbing.

REMOTE CONTROL OPERATION

(Remote control is applicable to components that use the RC-5 remote control cord language.)



1 **SOURCE SELECTION Button**
Pressing one of these button selects the program source.

2 **Numeric Buttons 0 to 9**
In TUNER operation, these buttons are used to recall the Preset Number.
In CD operation, these buttons are used to recall a track number.
In TV operation, these buttons are used to select the TV channel.

3 **MONO/ST Button (FM MONO/STEREO)**
Functions as the same as the MODE button in the receiver.

4 **VOLUME ▲ / ▼ Button**
These buttons vary the listening volume. Press the ▲ button to increase it and the ▼ button to decrease it.

5 **MUTE Button**
Pressing this button immediately decreases the sound level the (VOLUME control LED will flicker). To restore the sound, press this button again.

6 **SLEEP Button**
Press to set the sleep timer.

7 **Control Button**
PLAY (▶), STOP (■), PAUSE (▮▮), FF (▶▶), REW (◀◀).
These buttons are used when operating the CD player, LD player, TAPE deck, VCR, etc.
The functions of these buttons are dependent on the function button selected.

8 **POWER Button**
Press this button to turn ON/OFF (standby) the receiver.

9 **DECK A/B Button**
When this button is pressed, DECK A or B can be operated.

10 **TXT Button**
This button is used to view the teletext broadcast with TV stations. For details, read the owner's manual of your TV set.

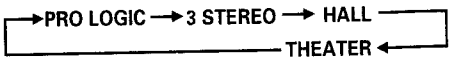
11 **FR. DIRECT Button**
When this button is pressed while the tuner source is being selected, the desired station can be selected by directly composing its frequency using numeric buttons 0 to 9.

12 **DISPLAY Button**
The function of this button is dependent on the function button selected, as described below.
When CD is selected:
Time (used to switch the displayed time between elapsed time and remaining time).
When TUNER is selected:
Preset number: ON/OFF.
When AUX/TV is selected:
OSD (used to control the on-screen display of TV).
When a VCR is selected:
Slow (used for slow playback of videotape).
* For details, refer to the instruction manuals of the components used in your system.

13 **TV-VOL Button**
Adjust the TVs' Volume.

14 **Surround selector**
Surround control button
This button selects the surround modes.

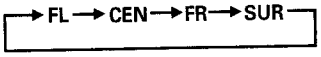
D.S.P. button



CENTER mode select button
This button can be used only when the surround mode is DOLBY, and is used to select the center mode. (NORMAL, WIDE, PANTOM)

LEVEL UP ▲ / DOWN ▼ buttons
They can be used only when the surround mode can are used to increase or decrease the center and (or) rear channel volume.

TEST TONE button
When the surround mode is PRO LOGIC, use this function to adjust the volume of each speaker. When this button is pressed, pink noise is output from each speaker in sequence.



DELAY button
Use this button to set the delay time of the surround channel.

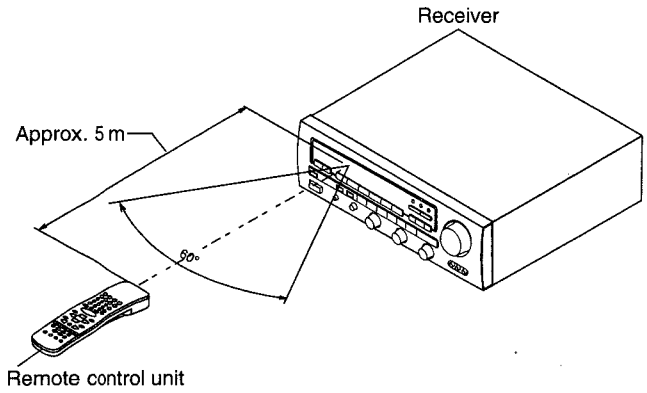
ENGLISH

Operation of Remote Control

1. Remote control

The distance between the transmitter of the remote control unit and the IR SENSOR of the AV Surround Stereo Receiver should be less than about 5 metres. If the transmitter is pointed to a direction other than the IR SENSOR or if there is an obstacle between them, remote control may not be possible.

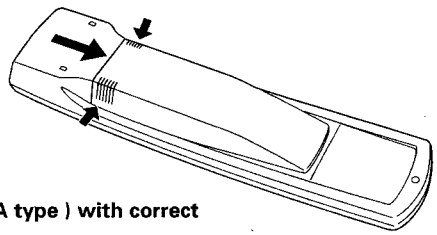
Remote-controllable range



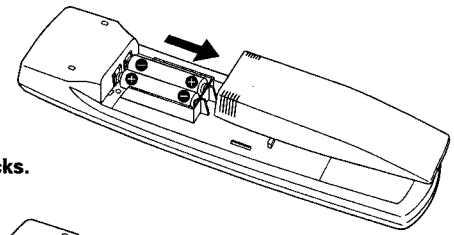
2. Loading batteries

The life of the batteries used with the remote control unit is about one year with normal use.

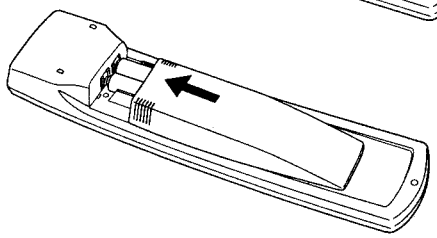
①Remove the back cover.



②Insert batteries (AAA type) with correct (+) and (-) polarity.



③Close until it clicks.



CARE AND MAINTENANCE

This section describes the care and maintenance tasks that must be performed to optimize the operation of your Marantz equipment.

CLEANING OF EQUIPMENT EXTERNAL SURFACES

The exterior finish of your unit will last indefinitely with proper care and cleaning. Never use scouring pads, steel wool, scouring powders or harsh chemical agents (e.g., lye solution), alcohol, thinners, benzine, insecticide or other volatile substances as these will mar the finish of the equipment. Likewise, never use cloths containing chemical substances. If the equipment gets dirty, wipe the external surfaces with a soft, lint-free cloth.

If the equipment becomes heavily soiled:

- dilute some washing up liquid in water, in a ratio of one part detergent to six parts water;
- dip a soft, lint free cloth in the solution and wring the cloth out until it is damp;
- wipe the equipment with the damp cloth
- dry the equipment by wiping it with a dry cloth.

REPAIRS

Only the most competent and qualified service technicians should be allowed to service your unit. Marantz and its factory trained warranty station personnel have the knowledge and special equipment needed for the repair and calibration of this precision instrument.

In the event of difficulty, call the proper toll-free telephone number listed on the face of the warranty to obtain the name and address of the Marantz Authorized Service Center nearest you. In many cases, the dealer where you purchased your Marantz unit may be equipped to provide service. Please include the model, serial number of your unit together with a copy of your purchase receipt and a full description of what you feel is abnormal in its behaviour.

THE PROTECTION CIRCUIT

If the protection circuit does work, the unit will enter to standby mode and do not only working for 3 seconds.

GENERAL MALFUNCTION

If the equipment malfunctions, this may be because an electrostatic discharge or AC line interference has corrupted the information in the equipment memory circuits. Therefore:

- power switch turns OFF
- after waiting at least three minutes, power switch turns ON
- re-attempt to operate the equipment

Memory backup

- In case a power outage occurs or the power cord is accidentally unplugged, the unit is equipped with a backup function to prevent memory data such as the preset memory from being erased.
  The memory functions are backed up for up to about 2 week.

TROUBLESHOOTING GUIDE

If your receiver should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or our service organization.

PROBLEM	POSSIBLE CAUSE	REMEDY
No power	• The AC input cord is disconnected. • Poor connection at AC wall outlet or the outlet is inactive.	• Connect cord securely. • Check the outlet using lamp or other appliance.
The sound is shut off.	• The speaker cables are shorted.	• Check the speaker connections.
No sound from the speakers.	• The speaker cables are disconnected. • The master volume is adjusted too low. • The surround volume is adgusted too low. • The center volume is adgusted too low. • The Mute button is pressed to ON. • The SPEAKER switches are not pressed correctly. • Incorrect selection of program source. • Incorrect connections between the components.	• Check the speaker connections. • Adjust the master volume and center, sunr.vol. • Press the MUTE button to cancel the muting effect. • Press the SPEAKER switches to ON correctly. • Select the desired program source correctly. • Make connections correctly.
Sound is only heard from one of front speakers.	• The BALANCE control is set to one end. • One of the connection cords is disconnected.	• Adjust the BALANCE control. • Connect the right and left connection cords securely.
No sound from the rear speakers.	• The sound field mode is not selected correctly or is set to off. • The master volume and rear level are adjusted too low. • Monaural source is used, or source without surround information.	• Select the desired sound field mode correctly. • Adjust the master volume and rear level. • Change the playback source to the stereo or surround source.
No sound from the center speaker.	• DOLBY PRO LOGIC, or DOLBY 3 STEREO mode is notselected. • The center mode is set to the PHANTOM mode. • The master volume and center level are adjusted too low.	• Select the desired mode. • Set to the NORMAL or WIDE mode. • Adjust the master volume and center level.
The remote control unit does not operate.	• Batteries are not loaded or exhausted. • The remote sensor is obstructed.	• Replace the with new batteries. • Remove the obstacle from the remote sensor.
Not receiving the stations.	• No antenna is connected. • The desired station frequency is not tuned in.	• Connect an antenna. • Tune in the desired station frequency.
Not receiving the preset stations.	• An incorrect station frequency has been memorized. • The memorized stations are cleared.	• Memorized the correct station frequency. • Memorize the stations again.
Poor FM reception.	• No antenna is connected. • The antenna is not positioned for the best reception.	• Connect an antenna. • Change the position of the antenna. Route as high as possible.
Continuous hissing noise during FM reception, especially when a stereo broadcast is received.	• Weak signal.	• Change the position of the antenna. • In areas remote from the transmitter, a 5 to 8 element antenna designed exclusively for FM is suggested.
Continuous or intermittent hissing noise during AM reception, especially at night. A hum can be heard during AM reception.	• Noise is caused by motors, fluorescent lamps or lightning, etc. • The AC input cord may be too close to the AM loop antenna or the antenna wire.	• Keep the receiver away from noise sources. • Install an outdoor AM antenna. • Position the AC input cord away from the antenna wire and the AM loop antenna. • Adjust the position of the AM loop antenna.

AVANT-PROPOS

Prière de lire ce chapitre avant de brancher l'appareil sur le secteur.

AVERTISSEMENT

Ne pas exposer l'appareil à la pluie ou à l'humidité.

Garder le coffret de l'appareil fermé.

Ne rien insérer par les trous d'aération de l'appareil.

Ne pas manipuler le cordon d'alimentation avec des mains mouillées.

REGLAGE DE L'ALIMENTATION SECTEUR DE L'APPAREIL

Cet appareil Marantz a été conçu pour respecter les exigences de votre région en matière d'alimentation secteur et de sécurité.
Sur le panneau arrière du modèle Version «Overseas» (Etranger) est implanté un sélecteur de tension. Prenez soin de régler ce sélecteur en fonction de la tension secteur, utilisée dans votre région, avant de mettre l'appareil en service.

COPYRIGHT

L'enregistrement et la lecture de certaines informations sonores nécessitent une autorisation. Pour de plus amples renseignements, consultez:
- La loi de 1956 sur les Copyright.
- La loi de 1972 sur les interprétations dramatiques et musicales.
- Les décrets et règlements ultérieurs qui s'y rapportent.

INTRODUCTION

Merci pour avoir choisi l'ampli-tuner A/V stéréo Surround Marantz pour votre chaîne audio/vidéo.
Cet ampli-syntoniseur est doté de nombreuses fonctions conçues pour améliorer les performances de vos sources audio préférées.
Veuillez lire attentivement ces instructions. Nous vous recommandons de lire ce manuel en entier avant d'essayer de connecter ou de faire fonctionner l'appareil.
Après avoir pris connaissance du contenu de ce manuel, nous vous suggérons d'effectuer toutes les connexions de la chaîne avant de faire fonctionner l'appareil.

Se référer aux schémas qui se trouvent à la fin de ce manuel. Les numéros des schémas renvoient aux numéros se trouvant dans le texte. Toutes les références aux connexions et commandes imprimées en caractères **GRAS** sont telles qu'elles apparaissent sur l'appareil.

INSTALLATION

Souvenez-vous des points importants suivants lors de l'installation de l'ampli-tuner.
- Ne pas exposer l'appareil à la pluie ni à l'humidité car elles pourraient l'endommager.
- Tous les appareils de ce type produisent de la chaleur pendant leur fonctionnement et celle-ci doit pouvoir se dissiper librement. Ne pas obstruer les ouvertures d'aération et prévoir un espace suffisant pour l'aération à l'arrière, sur les côtés et au-dessus de l'appareil.
- Eviter que l'appareil ne soit soumis à trop de chaleur. Ne jamais le placer directement aux rayons du soleil ou près d'une source de chaleur.

PRECAUTIONS

Il convient de prendre les précautions suivantes pendant le fonctionnement de l'appareil.

PRECAUTIONS GENERALES

Lors de l'installation de l'appareil, vérifier :
- que les orifices d'aération ne sont pas obstrués.
- que l'air peut circuler librement autour de l'appareil.
- que l'appareil est placé sur une surface non sujette aux vibrations.
- qu'il n'est pas exposé à des sources de chaleur excessive, au froid, à l'humidité et à la poussière.
- qu'il n'est pas exposé aux rayons directs du soleil.
- qu'il n'est pas exposé aux décharges électrostatiques.
- qu'il est horizontal.

En outre, ne jamais placer d'objets lourds sur l'appareil.

Si un objet ou de l'eau pénètre à l'intérieur de l'appareil, prendre contact avec le distributeur ou le centre de service après-vente le plus proche.

Toujours débrancher l'appareil en tirant sur la fiche et non pas sur le cordon secteur.

Il est recommandé de débrancher l'appareil de la prise secteur lorsque son fonctionnement est interrompu pendant une longue période de temps ou en cas d'orage.

CARACTERISTIQUES DU SR390

- Muni de 7 entrées audio et de 3 entrées vidéo.
- Avant 50 W x 2 (8 ohms), centre 40 W (8 ohms), environnement 20 + 20w (8 ohms).
- Mémoire acoustique dotée de 7 présélections permettant de mémoriser les champs d'environnement désirés.
- Décodeur environnement doté de fonction de commande de retard numérique.
- Dolby Pro-Logic Surround avec fonction automatique de commande de balance d'entrée.
- Mémoire de présélections pouvant stocker 30 émetteurs.
- Arrêt programmable pouvant atteindre 90 minutes.

Pour assurer une bonne ventilation de Récepteur, ne pas le monter sur rack ni le placer à l'intérieur d'une bibliothèque. Toujours observer les précautions suivantes:
- Ne jamais introduire d'objets dans l'espace situé au-dessous de Récepteur.
- Veiller à ne pas obstruer les orifices de ventilation au-dessus de Récepteur.
- Laisser la zone au-dessus de l'récepteur dégagée sur environ un mètre.
- Laisser environ 20 cm d'espace libre de chaque côté de Récepteur.